illuvix®

ARCHITECTURAL LED RAILING SOLUTIONS



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winner

ILLUNOX® BY LAGUSSKI B.V.

From manufacturer to architectural partner

Since 2007, Lagusski B.V. - manufacturer of the ILLUNOX® solutions - has been active as a specialist in engineering and precision manufacturing. From our founding till present day, we have grown from an advanced metalworking company into a multidisciplinary engineering environment and innovative production facility where mechanical design, mechatronics and system integration come together.

In 2014, we introduced ILLUNOX® - one of the first fully integrated continuous LED railing systems in which structural safety and architectural lighting are fully combined. Examples of implementation are illuminated handrails for bridges, stairs and stand-alone fences. Since then, ILLUNOX® has evolved into a leading brand for effectively lighting bridges, public spaces and complex architectural environments around the globe.

With more than two decades of engineering expertise and in-house production, we develop custom-built illuminated rail systems that simplify specifications, reduce coordination between disciplines and support architectural freedom. From standard system components to project-specific, tailor-made solutions based on client specifications, every ILLUNOX® solution is engineered with precision, reliability and long-term performance in mind.





OUR VISION

From functional safety to architectural expression

ILLUNOX® railing systems integrate light directly into the building structure, combining mechanical engineering and precision with controlled light distribution. A unique feature is the smart slide-clamp system for easy configuration and a low total cost of ownership (TCO). By embedding lighting within the handrail, functional and architectural requirements are addressed within a single coordinated system.

This results in an efficient solution that delivers three functions in one: structural strength, user safety and architectural lighting. Clear, uniform illumination enhances social safety while preserving the architectural intention across public infrastructure, utility and residential buildings and maritime environments.

The use of ILLUNOX® systems saves time, coordination complexity and reduces costs thanks to the integrated approach. The LED light is provided exactly where it is needed. The wide selection of fixtures, such as symmetrical versus asymmetrical and direct versus diffused light output, always ensures the right solution for the right location.

ILLUNOX®, WHERE ■ LIGHT ■ MATTERS

OUR PROMISES

From architectural freedom to long-term value

ILLUNOX® combines refined design with advanced engineering to create illuminated handrail systems that elevate both safety and architecture. Every solution is made to measure and seamlessly integrated — delivering performance, aesthetics and reliability in one.

ENGINEERED FOR LASTING VALUE

- **Integrated approach, smarter cost efficiency**
  Synergies due to an integral disciplinary approach reduces overall project costs.
- **Fast installation, zero welding**
  Innovative slide-clamp system saves time on site.
- **Lower total cost of ownership**
  Durable materials and consistent quality minimize maintenance over time.

DESIGNED TO ELEVATE SPACES

- **Architectural freedom**
  Client control over the finer details.
- **Made to measure**
  Tailored to fit the exact geometry and vision of every project.
- **Timeless aesthetics**
  A refined appearance that remains relevant for years to come.

PERFORMANCE WITHOUT COMPROMISE

- **Consistent light quality**
  Even, continuous illumination for optimal visibility and comfort.
- **Reliable in every environment**
  Engineered to perform in both interior and exterior applications.
- **Social safety by design**
  Enhancing guidance and clear orientation.





APPLICATIONS

One technology, multiple environments

Wherever a railing is required, an ILLUNOX® illuminated handrail system can combine structure and light with a single integrated solution. Designed to adapt to its context, the solution supports a wide range of applications while maintaining consistent performance and visual quality. ILLUNOX® LED railing systems are applied across a broad spectrum of architectural and infrastructural environments.

TYPICAL APPLICATION AREAS

- Bridges and pedestrian infrastructure
- Bicycle parking
- Public transport hubs, like metro and train stations
- Shopping centres
- Theaters
- Apartment buildings and residential complexes
- In and around public buildings
- Public spaces and waterfronts
- Maritime and offshore environments

SPOTLIGHT PROJECTS

One brand, multiple environments

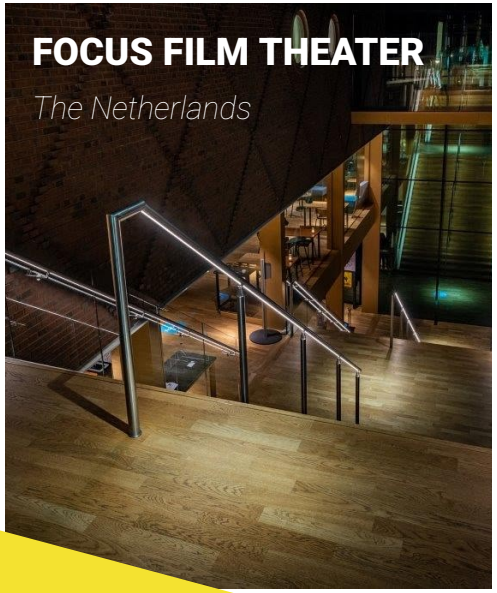


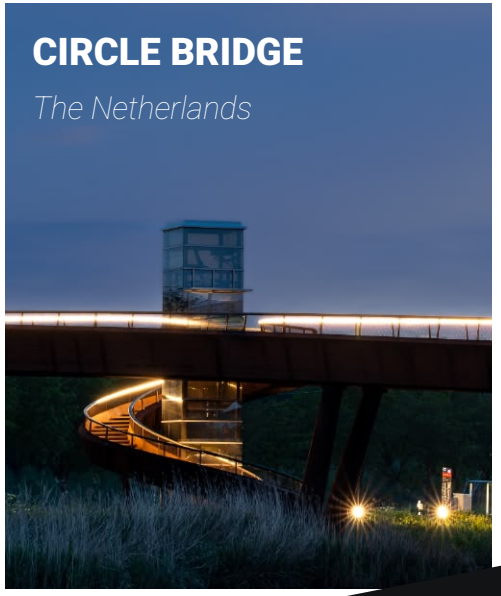


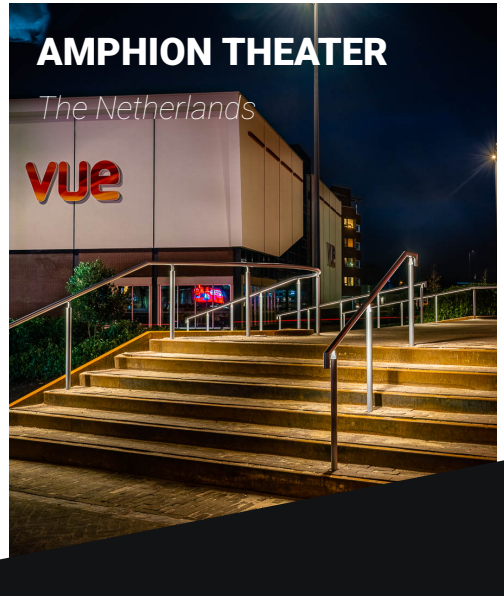












IN-HOUSE ENGINEERING & PRODUCTION

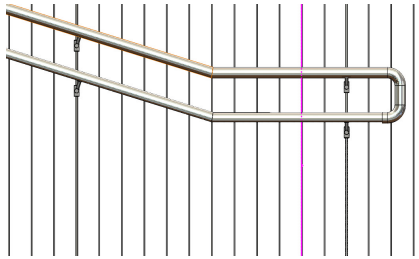
Standard or special project designs uniquely configured

The ILLUNOX® system includes a range of standard mounting components with clamps for the unique ILLUNOX® slide-clamp system, such as wall brackets, support post fittings and glass fixings, designed for reliable and consistent LED integration.

Supported by our in-house engineering, construction, CNC machining and mechatronics specialists, we develop standard, project-specific and unique solutions which can be delivered as assembly-ready kits. This enables a seamless integration of ILLUNOX® products into new architectural designs, as well as enabling upgrades of existing stairs, ramps and bridges.

Complex geometrical forms and curves are engineered by ILLUNOX® and manufactured in collaboration with specialist partners, depending on project requirements and installation conditions.

In addition to the illuminated handrails, our production facility produces accompanying non-illuminated handrails and fences or handrails for use with alternative lighting systems.







OVERVIEW OF ILLUNOX® SYSTEM OPTIONS

Ensuring architectural freedom

ILLUNOX LUMIFORCE

The modular ILLUNOX® system combines design freedom with technical precision. It offers a wide range of materials, finishes, and mounting options, combined with versatile lighting possibilities. The final ILLUNOX® luminaire is defined by the choice of materials, the selection of ILLUNOX® Lumiforce LED strips and integration options—offering precise control over color, intensity, and light distribution, whether symmetrical or asymmetrical, all tailored for optimal project integration.

Dimensions Handrail	48.3mm, 42.4mm, 40x40mm or 60x40mm. Other sizes on request
Material Options	Stainless steel AISI 316(L), AISI 304(L) On request hardwood, steel or aluminum
Finishing Options	K320 grinded / satin finish Standard (RAL) or custom color coating Other finishings on request
Mounting Options	Wall, Glass or Support Post mounted Other mounting options on request (eg. lamella balustrades)
Linear Light Emitting	Symmetric or asymmetric
Linear LED Color Options	2,700K, 3,000K or 4,000K On request RGB(WW) or tunable white
Luminous Efficacy	> 113 lm/W
Luminous Flux	Various choices, range: 300 -1,000 lm/m
Dimmable	PWM dimmable, eg. via DALI protocol
Nominal Voltage	24V DC
LED Cover	Transparant, Opal or Asymmetric
IP Factor	IP20, IP40, IP65, IP66, IP67
Vandalism Resistance	IK11

OUR SERVICES

From co-design to premium custom solutions

ILLUNOX® supports architects, specifiers and contractors throughout the entire process. From design validation, creative design input, BIM integration, on-site measurement, made-to-measure production to project and installation guidance.

Installation is carried out with our skilled professionals or with certified partners. We provide worldwide delivery of the engineered components or kits and, where required, technical guidance such as on-site instruction or supervision.

Whether it's a standardized solution or a fully custom design, we ensure high-quality products and on-time delivery.

What we promise is what we deliver – and beyond.

Not just a HIGH-QUALITY PRODUCT, but a TRUE PREMIUM EXPERIENCE!





TRUST BUILT ON EXPERIENCE

A selection of partners, architects and clients

Since its introduction, ILLUNOX® illuminated handrail systems have been applied in more than 200 projects, ranging from small-scale plans to complex public and infrastructural environments.

We are accustomed to working with main contractors, engineering firms and multidisciplinary design teams, ensuring coordinated integration across architectural, structural and electrical disciplines.

Trusted by leading partners in construction and design.

A SELECTION OF OUR CLIENTS, PARTNERS AND PROJECTS

ADNOC · ARCADIS · bam Infra · Dura Vermeer · cepezed
CHOGOGO · FOSFARI LIGHTING · croonwolter&dros | TBI · DAMEN · EIFFAGE
Elmindsteren · Hilton Hotels & Resorts · Sluishuis Amsterdam · Gemeente Amsterdam · halored
heijmans · Bayer · Royal HaskoningDHV · mecanoo · Hanab

CONTACT US

Your partner in integrated lighting

Discuss your next project, request technical documentation or schedule a project briefing or design consultation.

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Photography: Werner Heinsman (2, 4, 5, 6, 7, 9), Henk Hulshof (1, 6, 10), Jens Panduro (6), Stijn van de Ven (3, 6, 7, 12), Citycon (6), A Cube Agency (8), all other credentials ILLUNOX®

Ontwerp, vormgeving brochure en huisstijl ILLUNOX: Werner Heinsman

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WHERE LIGHT MATTERS